

# Exhibit 1

## WORK BREAKDOWN STRUCTURE

May 12, 2003

### - FUND-LEAD SITE SPECIFIC WORK AREAS -

#### REMEDIAL INVESTIGATION/FEASIBILITY STUDY

Work Area Code: RI

Action Code: CO (RI/FS Combined), RI (Remedial Investigation),  
FS (Feasibility Study)

##### Tasks (Task Category Code)

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| <ol style="list-style-type: none"> <li>1. Project Planning and Support (PP)</li> <li>2. Community Involvement (CR)</li> <li>3. Field Investigation/Data Acquisition (FI)</li> <li>4. Sample Analysis (SN)</li> <li>5. Analytical Support and Data Validation (AN)</li> <li>6. Data Evaluation (DE)</li> <li>7. Risk Assessment (RA)</li> <li>8. Treatability Study/Pilot Testing (TT)</li> </ol> | <ol style="list-style-type: none"> <li>9. Remedial Investigation Report (RR)</li> <li>10. Remedial Alternatives Screening (RS)</li> <li>11. Remedial Alternatives Evaluation (RE)</li> <li>12. FS Report (FS)</li> <li>13. Post RI/FS Support (PR)</li> <li>14. Administrative Record (AR)</li> <li>15. Work Assignment/Task Order Close Out (CO)</li> </ol> |
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#### REMEDIAL DESIGN

Work Area Code: RD

Action Code: RD

##### Tasks (Task Category Code)

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|---|--|
| <ol style="list-style-type: none"> <li>1. Project Planning and Support (PP)</li> <li>2. Community Involvement (CR)</li> <li>3. Field Investigation/Data Acquisition (FI)</li> <li>4. Sample Analysis (SN)</li> <li>5. Analytical Support and Data Validation (AN)</li> <li>6. Data Evaluation (DE)</li> <li>7. Treatability Study/Pilot Testing (TT)</li> </ol> | <ol style="list-style-type: none"> <li>8. Preliminary Design (PD)</li> <li>9. Equipment/Services/Utilities (ES)</li> <li>10. Intermediate Design (ID)</li> <li>11. Pre-final/Final Design (FD)</li> <li>12. Reuse Planning (RV)</li> <li>13. Post Remedial Design Support (DS)</li> <li>14. Work Assignment/Task Order Close Out (CO)</li> </ol> |
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#### REMEDIAL ACTION

Work Area Code: RA

Action Code: RA

##### Tasks (Task Category Code)

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|---|---|
| <ol style="list-style-type: none"> <li>1. Project Planning and Support (PP)</li> <li>2. Community Involvement (CR)</li> <li>3. Procurement of Subcontract (PB)</li> <li>4. Management Support (MS)</li> <li>5. Detailed Resident Inspection (Resident Engineer) (RI)</li> <li>6. Analytical Support and Data Validation (AN)</li> </ol> | <ol style="list-style-type: none"> <li>7. Cleanup Validation (CV)</li> <li>8. Remedial Action Implementation (Subpool Activities) (AI)</li> <li>9. Reuse Planning (RV)</li> <li>10. Project Performance (PJ)</li> <li>11. Project Completion and Close Out (PC)</li> <li>12. Work Assignment/Task Order Close Out (CO)</li> </ol> |
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<b>CONSTRUCTION SUPPORT</b>		Work Area Code: CO	Action Code: RA
<u>Tasks</u> (Task Category Code) 1. Project Planning and Support (PP) 2. Community Involvement (CR) 3. Management Support (MS) 4. Detailed Resident Inspection (Resident Engineer) (RI)		5. Analytical Support and Data Validation (AN) 6. Cleanup Validation (CV) 7. Project Completion and Close Out (PC) 8. Work Assignment/Task Order Close Out (CO)	
<b>LONG TERM RESPONSE ACTION</b>		Work Area Code: LR	Action Code: LR
<u>Tasks</u> (Task Category Code) 1. Project Planning and Support (PP) 2. Community Involvement (CR) 3. Procurement of Subcontract (PB) 4. Management Support (MS) 5. Detailed Resident Inspection (Resident Engineer) (RI) 6. Analytical Support and Data Validation (AN)		7. Remedial Action Implementation (Subpool Activities) (AI) 8. Cleanup Validation (CV) 9. Reuse Planning (RV) 10. Project Performance (PJ) 11. Project Completion and Close Out (PC) 12. Work Assignment/Task Order Close Out (CO)	
<b>NON-TIME CRITICAL REMOVAL SUPPORT (EE/CAs)</b>		Work Area Code: NS	Action Code: EE
<u>Tasks</u> (Task Category Code) 1. Project Planning and Support (PP) 2. Community Involvement (CR) 3. Field Investigation/Data Acquisition (FI) 4. Sample Analysis (SN) 5. Analytical Support and Data Validation (AN) 6. Data Evaluation (DE) 7. Risk Assessment (RA)		8. Identification and Screening of Removal Alternatives (IS) 9. Analysis of Removal Alternatives (AL) 10. Engineering Evaluation/Cost Analysis (EE/CA) Report (EE) 11. Post EE/CA Support (PE) 12. Administrative Record (AR) 13. Work Assignment/Task Order Close Out (CO)	

<b>NON-TIME CRITICAL REMOVAL ACTION</b>		Work Area Code: NA	Action Code: RV
<u>Tasks</u> (Task Category Code)         1. Project Planning and Support (PP) 2. Community Involvement (CR) 3. Procurement of Subcontract (PB) 4. Management Support (MS) 5. Detailed Resident Inspection (Resident Engineer) (RI) 6. Post Remedial Design Support (DS) 7. Pre-final/Final Design (FD) 8. Intermediate Design (ID)		9. Preliminary Design (PD) 10. Cleanup Validation (CV) 11. Remedial Action/Non-time Critical Removal Action Implementation (Subpool Activities) (AI) 12. Project Performance (PJ) 13. Project Completion and Close Out (PC) 14. Work Assignment/Task Order Close Out (CO)	
<b>POST-CONSTRUCTION REMEDIAL ACTION</b>		Work Area Code: RA	Action Code: RA
<u>Tasks</u> (Task Category Code)         1. Project Planning and Support (PP) 2. Community Involvement (CR) 3. Procurement of Subcontract (PB) 4. Management Support (MS) 5. Detailed Resident Inspection (Resident Engineer) (RI) 6. Analytical Support and Data Validation (AN)		7. Cleanup Validation (CV) 8. Remedial Action Implementation (Subpool Activities) (AI) 9. Reuse Planning (RV) 10. Project Performance (PJ) 11. Project Completion and Close Out (PC) 12. Work Assignment/Task Order Close Out (CO)	

**- ENFORCEMENT SUPPORT SITE SPECIFIC WORK AREAS -**

**RI/FS OVERSIGHT**

Work Area Code: RS

Action Code: BD (RI/FS Combined); NA (Remedial Investigation);  
NK (Feasibility Study)

Tasks (Task Category Code)

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| <ol style="list-style-type: none"> <li>1. Project Planning and Support (PP)</li> <li>2. Community Involvement (CR)</li> <li>3. Field Investigation/Data Acquisition (FI)</li> <li>4. Sample Analysis (SN)</li> <li>5. Analytical Support and Data Validation (AN)</li> <li>6. Data Evaluation (DE)</li> <li>7. Risk Assessment (RA)</li> <li>8. Treatability Study/Pilot Testing (TT)</li> </ol> | <ol style="list-style-type: none"> <li>9. Remedial Investigation Report (RR)</li> <li>10. Remedial Alternatives Screening (RS)</li> <li>11. Remedial Alternatives Evaluation (RE)</li> <li>12. FS Report (FS)</li> <li>13. Post RI/FS Support (PR)</li> <li>14. Administrative Record (AR)</li> <li>15. Work Assignment/Task Order Close Out (CO)</li> </ol> |
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**NEGOTIATION SUPPORT**

Work Area Code: NG

Action Code: NG

Tasks (Task Category Code)

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|--|--|
| <ol style="list-style-type: none"> <li>1. Project Planning and Support (PP)</li> <li>2. Negotiation Support (NG)</li> <li>3. Document Review (DR)</li> </ol> | <ol style="list-style-type: none"> <li>4. Post ROD Cost Analysis (RC)</li> <li>5. Work Assignment/Task Order Close Out (CO)</li> </ol> |
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**RD OVERSIGHT**

Work Area Code: RO

Action Code: BE

Tasks (Task Category Code)

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|--|---|
| <ol style="list-style-type: none"> <li>1. Project Planning and Support (PP)</li> <li>2. Community Involvement (CR)</li> <li>3. Field Investigation/Data Acquisition (FI)</li> <li>4. Sample Analysis (SN)</li> <li>5. Analytical Support and Data Validation (AN)</li> <li>6. Reuse Planning (RV)</li> </ol> | <ol style="list-style-type: none"> <li>7. Data Evaluation (DE)</li> <li>8. Review of PRP RD/RA Submittals (RP)</li> <li>9. Remedial Action Oversight (RO)</li> <li>10. Technical Meeting Support (TM)</li> <li>11. Work Assignment/Task Order Close Out (CO)</li> </ol> |
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**RA OVERSIGHT**

Work Area Code: RX

Action Code: BF

Tasks (Task Category Code)

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|--|---|
| <ol style="list-style-type: none"> <li>1. Project Planning and Support (PP)</li> <li>2. Community Involvement (CR)</li> <li>3. Field Investigation/Data Acquisition (FI)</li> <li>4. Sample Analysis (SN)</li> <li>5. Analytical Support and Data Validation (AN)</li> <li>6. Reuse Planning (RV)</li> </ol> | <ol style="list-style-type: none"> <li>7. Data Evaluation (DE)</li> <li>8. Review of PRP RD/RA Submittals (RP)</li> <li>9. Remedial Action Oversight (RO)</li> <li>10. Technical Meeting Support (TM)</li> <li>11. Work Assignment/Task Order Close Out (CO)</li> </ol> |
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<b>REMOVAL OVERSIGHT</b>		Work Area Code: VO	Action Code: BB
<u>Tasks</u> (Task Category Code) 1. Project Planning and Support (PP) 2. Community Involvement (CR) 3. Field Investigation/Data Acquisition (FI) 4. Sample Analysis (SN) 5. Analytical Support and Data Validation (AN) 6. Data Evaluation (DE)		7. Risk Assessment (RA) 8. Review of PRP Removal Submittals (RQ) 9. Removal Oversight (VO) 10. Technical Meeting Support (TM) 11. Administrative Record (AR) 12. Work Assignment/Task Order Close Out (CO)	
<b>LONG TERM RESPONSE ACTION OVERSIGHT</b>		Work Area Code: ME	Action Code: ME
1. Project Planning and Support (PP) 2. Community Involvement (CR) 3. Field Investigation/Data Acquisition/Data Acquisition (FI) 4. Sample Analysis (SN) 5. Analytical Support and Data Validation (AN) 6. Reuse Planning (RV)		7. Data Evaluation (DE) 8. Review of PRP RD/RA Submittals (RP) 9. O&M Oversight (OM) 10. Technical Meeting Support (TM) 11. Work Assignment/Task Order Closeout (CO)	
<b>OPERATION AND MAINTENANCE (O&amp;M) OVERSIGHT</b>		Work Area Code: OM	Action Code: OM
1. Project Planning and Support (PP) 2. Community Involvement (CR) 3. O&M Oversight (OM) 4. Analytical Support and Data Validation (AN)		5. Data Evaluation (DE) 6. Technical Meeting Support (TM) 7. Reuse Planning (RV) 8. Work Assignment/Task Order Closeout (CO)	
<b>LITIGATION SUPPORT</b>		Work Area Code: LS	Action Code: LT
<u>Tasks</u> (Task Category Code) 1. Project Planning and Support (PP) 2. Document Collection (DC) 3. Expert Witness Support (EW)		4. Technical Assistance (TA) 5. Work Assignment/Task Order Close Out (CO)	
<b>POST-CONSTRUCTION REMEDIAL ACTION OVERSIGHT</b>		Work Area Code: PO	Action Code: BF
<u>Tasks</u> (Task Category Code) 1. Project Planning and Support (PP) 2. Community Involvement (CR) 3. Field Investigation/Data Acquisition (FI) 4. Sample Analysis (SN) 5. Analytical Support and Data Validation (AN) 6. Reuse Planning (RV)		7. Data Evaluation (DE) 8. Review of PRP RD/RA Submittals (RP) 9. Remedial Action Oversight (RO) 10. Technical Meeting Support (TM) 11. Work Assignment/Task Order Close Out (CO)	

**- OTHER TECHNICAL ASSISTANCE SITE SPECIFIC WORK AREAS -**

**COMMUNITY INVOLVEMENT**

Work Area Code: CR (Remedial); CS (Removal); or CT (Enforcement)

Action Code: CR

Tasks (Task Category Code)

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|---|---|
| 1. Project Planning and Support (PP)          | 6. Public Notices (PN)                        |
| 2. Community Involvement Plan (CP)            | 7. Information Repositories (IR)              |
| 3. Public Meeting/Public Hearing Support (PM) | 8. Site Mailing List (ML)                     |
| 4. Fact Sheet Preparation (FP)                | 9. Responsiveness Summary Support (SU)        |
| 5. Proposed Plan Support (PL)                 | 10. Work Assignment/Task Order Close Out (CO) |

**SAMPLING AND ANALYTICAL SUPPORT**

Work Area Code: AN (Remedial); AO (Removal); or AP (Enforcement)

Action Code: LA

Tasks (Task Category Code)

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|--------------------------------------|--|
| 1. Project Planning and Support (PP) | 4. Analytical Support and Data Validation (AN)                 |
| 2. Sample Analysis (SN)              | 5. Characterization and Disposal of Field Generated Waste (CD) |
| 3. Data Evaluation (DE)              | 6. Work Assignment/Task Order Close Out (CO)                   |

**PRE-DESIGN INVESTIGATION**

Work Area Code: PI

Action Code: DE

Tasks (Task Category Code)

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| 1. Project Planning and Support (PP)         | 5. Analytical Support and Data Validation (AN) |
| 2. Treatability Study/Pilot Testing (TT)     | 6. Data Evaluation (DE)                        |
| 3. Field Investigation/Data Acquisition (FI) | 7. Pre-design Engineering Report (ER)          |
| 4. Sample Analysis (SN)                      | 8. Work Assignment/Task Order Close Out (CO)   |

<b>TREATABILITY STUDY/PILOT TESTING</b>		Work Area Code: PT	Action Code: CO (RI/FS), RD ( Remedial Design), BD (RI/FS Oversight)
<u>Tasks</u> (Task Category Code) 1. Project Planning and Support (PP) 2. Treatability Study/Pilot Testing (TT) 3. Sample Analysis (SN) 4. Analytical Support and Data Validation (AN)		5. Data Analysis and Interpretation (DI) 6. Treatability Study/Pilot Test Report (TP) 7. Work Assignment/Task Order Close Out (CO)	
<b>RISK ASSESSMENT</b>			
		Work Area Code: RK (Remedial) or RL (Enforcement)	Action Code: ED
<u>Tasks</u> (Task Category Code) 1. Project Planning and Support (PP) 2. Identification of Existing Information (II) 3. Sample Analysis (SN) 4. Analytical Support and Data Validation (AN)		5. Data Evaluation (DE) 6. Field Investigation (FI) 7. Risk Assessment (RA) 8. Work Assignment/Task Order Close Out (CO)	
<b>PRELIMINARY ASSESSMENT FOR SITE ASSESSMENT</b>			
		Work Area Code: PA	Action Code: QB (Fund lead); ON (Brownfields)
<u>Tasks</u> (Task Category Code) 1. Project Planning and Support (non-site specific) (PQ) 2. Work Assignment/Task Order Close Out (CO)		3. - n. Site Specific Activities (SS)	
<b>SITE INSPECTION FOR SITE ASSESSMENT</b>		Work Area Code: SI	Action Code: QB (Fund lead); ON (Brownfields)
<u>Tasks</u> (Task Category Code) 1. Project Planning and Support (non-site specific) (PQ) 2. Work Assignment/Task Order Close Out (CO)		3. - n. Site Specific Activities (SS)	
<b>HRS PACKAGE PREPARATION FOR SITE ASSESSMENT</b>			
		Work Area Code: HR	Action Code: HR
<u>Tasks</u> (Task Category Code) 1. Project Planning and Support (non-site specific) (PQ) 2. Work Assignment/Task Order Close Out (CO)		3. - n. Site Specific Activities (SS)	

<b>SITE SECURITY AND MAINTENANCE</b>		
Work Area Code: SS (Remedial); ST (Removal); or SU (Enforcement)		Action Code: PD
<u>Tasks</u> (Task Category Code)		
1. Project Planning and Support (PP)	3. Site Security/Guard Services (GS)	
2. Site Maintenance (SM)	4. Work Assignment/Task Order Close Out (CO)	
<b>DESIGN ASSISTANCE</b>		
Work Area Code: DA		Action Code: DA
<u>Tasks</u> (Task Category Code)		
1. Project Planning and Support (PP)	3. Work Assignment/Task Order Close Out (CO)	
2. Technical Assistance (TA)		
<b>FIVE-YEAR REVIEW</b>		
Work Area Code: FR		Action Code: FE
<u>Tasks</u> (Task Category Code)		
1. Project Planning and Support (PP)	5. Site Visit/Interviews (SV)	
2. Community Involvement (CR)	6. Site Inspection/Technology Review (SI)	
3. Document Review (DR)	7. Five-year Review Report (FR)	
4. Standards (ARAR) Review (SR)	8. Work Assignment/Task Order Close Out (CO)	
<b>RECORDS MANAGEMENT AND ADMINISTRATIVE SUPPORT</b>		
Work Area Code: RM (Remedial); RN (Removal); or RT (Enforcement)		Action Code: SW
<u>Tasks</u> (Task Category Code)		
1. Project Planning and Support (PP)	4. Administrative Support (AS)	
2. Site File Organization (SO)	5. Work Assignment/Task Order Close Out (CO)	
3. Administrative Record (AR)		
<b>REAL PROPERTY ACQUISITION SUPPORT</b>		
Work Area Code: RP (Remedial); RQ (Removal); or RR (Enforcement)		Action Code: RL
<u>Tasks</u> (Task Category Code)		
1. Project Planning and Support (PP)	3. Work Assignment/Task Order Close Out (CO)	
2. Property Acquisition (PA)		



<b>TECHNICAL ASSISTANCE</b>	
Work Area Code: TA (Remedial); TB (Removal); or TC (Enforcement)	Action Code: TA
<u>Tasks</u> (Task Category Code) 1. Project Planning and Support (PP) 2. Expert Technical Assistance (ET)	3. Work Assignment/Task Order Close Out (CO)
<b>INTEGRATED SITE ASSESSMENT/INVESTIGATION</b>	
Work Area Code: SA (Remedial); or SB (Enforcement)	Action Code: QB
<u>Tasks</u> (Task Category Code) 1. Project Planning and Support (PP) 2. Initial Site Discovery/Screening Support (SD)	3. Integrated Sampling/Investigation Support (SA) 4. Work Assignment/Task Order Close Out (CO)

#### Locational Data Policy

The contractor shall comply with all requirements related to the Agency's Location Data Policy (LDP) as described in EPA Publication 220 B-92-008 (March 1992 or latest revision) entitled, "Locational Data Policy Implementation Guidance: Guide to the Policy." The LDP assures the collection of accurate, consistently-formatted, and fully documented locational coordinated for facilities, sites, monitoring points, and observation points regulated or tracked under federal environmental programs within the Agency's jurisdiction. The LDP establishes principles for collecting and documenting geodetic coordinates defined in terms of latitude and longitude (lat/long). In addition to these locational data, LDP requires documentation of specific information regarding the method used to measure lat/long coordinate, the accuracy of the measurement, and a description of the place where the lat/long were taken. In order to effectively implement the LDP policy, the contractor shall collect and document the following information when collecting data under this contract:

- **Latitude/Longitude Coordinates:** Latitude and longitude coordinates shall be provided in accordance with the Federal Interagency Coordinating Committee for Digital Cartography (FICCDC) recommendations. The coordinates must define a point, line or area, according to the most appropriate data type fore the entity being represented (i.e., singly or multiple times).
- **Methodology Description:** The specific method used to determine lat/long coordinates shall be described (i.e., remote sensing techniques, map interpolation, cadastral survey).
- **Textual Description:** Each item shall be described in written text to which the lat/long coordinates refer (i.e, north-west corner of the site, entrance to the facility, point of discharge).
- **Estimation of Accuracy:** Measurements of accuracy related to lat/long coordinates shall be estimated in terms of the most precise units of measurement used.